

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

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1. (Currently Amended) A method of predicting failure of gas sensors in an incubator environment comprising the steps of:
- analyzing at least one gas sensor for lifetime adjustment;
  - adjusting a percentage gas sensor lifetime hours measurement for a gas sensor;
  - normalizing said ~~lifetime hours adjustments~~ adjustment measurement of said percentage gas sensor;
  - calculating ~~the a~~ percentage ~~gas sensor~~ lifetime hours measurement utilized by the gas sensor for comparison with its respective maximum percentage hours for said gas sensor, wherein the calculation is performed at a temperature of 20 degrees of Celsius; and
  - displaying a warning message to a user.
2. (Original) The method of claim 1, further comprising repeating the adjusting step every hour as determined by a cumulative clock in an embedded controller.
3. (Currently Amended) The method of claim 2, wherein a sensor lifetime value is adjusted and normalized to an hour count which is stored in percentage gas sensor lifetime hours at a temperature of 20 degrees Celsius in said embedded controller.

4. (Currently Amended) The method of claim 3, ~~wherein the step of normalization~~  
~~includes~~ further comprising:

holding a gas concentration and a gas sensor temperature remaining constant over  
a previous hour during the normalizing step.

5. (Currently Amended) The method of claim 3, wherein the embedded controller  
tracks O<sub>2</sub> and CO<sub>2</sub> ~~set points~~ values by percentage.

6. (Currently Amended) The method of claim 1, wherein the step of displaying a  
warning message to a user occurs once the percentage gas sensor lifetime hours exceed ~~90%~~ a  
predetermined value of said respective maximum percentage hours for said gas sensor.

7. (Original) The method of claim 3, wherein the embedded controller tracks O<sub>2</sub> and  
CO<sub>2</sub> operation times.

8. (Original) The method of claim 4, wherein said gas sensor is an O<sub>2</sub> sensor.

9. (Original) The method of claim 4, wherein said gas sensor is a CO<sub>2</sub> sensor.

10. (Currently Amended) A predictive warning system for incubator gas sensor  
failure, comprising:

at least one gas sensor disposed in an incubator housing;

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an embedded controller for analyzing the at least one gas sensor for failure by adjusting a percentage gas sensor lifetime hours measurement for a gas sensor;  
normalizing said adjustment measurement of said percentage gas sensor;  
calculating a percentage lifetime hours measurement utilized by the gas sensor for comparison with its respective maximum percentage hours for said gas sensor, wherein the calculation is performed at a temperature of 20 degrees of Celsius; and  
an interface display for indicating said gas sensor failure to a user.

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11. (Original) The predictive warning system of claim 10, wherein said embedded controller tracks the O<sub>2</sub> and CO<sub>2</sub> ~~set-points~~ values by percentage.

12. (Original) The predictive warning system of claim 10, wherein said interface display is resettable.

13. (Original) The predictive warning system of claim 10, wherein said embedded controller tracks the O<sub>2</sub> and CO<sub>2</sub> operation times.

14. (Original) The predictive warning system of claim 10, wherein said embedded controller adjusts a percentage gas sensor lifetime hours every hour.

15. (Currently Amended) The predictive warning system of claim 14, wherein said interface display indicates a warning message to said user once the percentage gas sensor

lifetime hours exceed ~~90%~~ a predetermined value of their respective maximum percentage hours of said gas sensor.

16. (Original) The predictive warning system of claim 15, wherein said gas sensor is an O<sub>2</sub> sensor.

17. (Original) The predictive warning system of claim 15, wherein said gas sensor is a CO<sub>2</sub> sensor.

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18. (Currently Amended) A predictive warning system for incubator gas sensor failure, comprising:

means for analyzing at least one gas sensor for lifetime adjustment;

means for adjusting a percentage gas sensor lifetime hours measurement for a gas sensor;

means for normalizing said ~~lifetime hours adjustments~~ adjustment measurement of a said percentage gas sensor;

means for calculating ~~the a percentage gas sensor lifetime hour measurement~~ utilized by the gas sensor for comparison with their its respective maximum percentage hours for said gas sensor, wherein the calculating means includes calculating at a temperature of 20 degrees Celsius; and

means for displaying a warning message to a user once the percentage gas sensor lifetime hours exceed ~~90%~~ a predetermined value of said respective maximum percentage hours for said gas sensor.

19. (Original) The predictive warning system of claim 18, further comprising:  
means for adjusting the percentage gas sensor lifetime hours every hour.

20. (Currently Amended) The predictive warning system of claim 19, wherein a sensor lifetime value is adjusted and normalized to an hour count which is stored in percentage gas sensor lifetime hours at a temperature of 20 degrees Celsius in ~~said~~ an embedded controller.

21. (Currently Amended) The predictive warning system of claim 19, ~~wherein the step of normalization includes~~ further comprising holding a gas concentration and a gas sensor temperature remaining constant over a previous hour during the normalizing step.

22. (Currently Amended) The predictive warning system of claim 19, wherein ~~the~~ an embedded controller tracks O<sub>2</sub> and CO<sub>2</sub> ~~set points~~ values by percentage.

23. (Currently Amended) The predictive warning system of claim 19, wherein ~~the~~ an embedded controller tracks O<sub>2</sub> and CO<sub>2</sub> operation times.

24. (Original) The predictive warning system of claim 18, wherein said means for displaying a warning message to a user is resettable.

25. (Original) The predictive warning system of claim 20, wherein said gas sensor is an O<sub>2</sub> sensor.

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26. (Original) The predictive warning system of claim 20, wherein said gas sensor is an CO<sub>2</sub> sensor.

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